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8/9/1 (Item 1 from file: 2)

09791063

Title: Multi-feature seafloor sediments classification for side-scan sonar imagery based on a quadratic unsharp masking operator

Author Yang Ci-yin; Xu Feng

Author Affiliation: Lab. of Imagery Sonar Tech., Chinese Acad. of Sci., Beijing, China

Journal: Acta Electronica Sinica vol.33, no.10 p. 1841-4

Publisher: Chinese Inst. Electron,

Publication Date: Oct. 2005 Country of Publication: China

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SICI: 0372-2112(200510)33:10L.1841:MFSS;1-2 **Material Identity Number:** B902-2005-013

Language: Chinese Document Type: Journal Paper (JP)

Treatment: Practical (P); Theoretical (T)

Abstract: A quadratic unsharp masking (QUM) operator is presented, which extracts edge and detail information from an image with equal weights. QUM which is the mean of QUM values for all pixels in an image, TEM which is the mean of TEM (Laws' texture energy measure) values for all pixels in the image, and standard deviation (sigma) of the image are combined to form a three-dimensional feature vector (QUM, TEM, sigma), for performing classification on side-scan sonar seafloor images. 150 sidescan sonar images for mud, sand and rock seafloors are classified using the presented three-dimensional feature vector, and recognition rates of maximum 96.7% and minimum 90.7% are achieved. These same 150 seafloor images are also classified using the conventional gray level co-occurrence matrix features, and a recognition rate of 87.3% is achieved, which shows that the presented seafloor classification method has better classification performance. (12 Refs)

Subfile: A B C

Descriptors: feature extraction; geophysical signal processing; image classification; image recognition; image segmentation; image texture; matrix algebra; oceanographic techniques; sediments; sonar imaging

Identifiers: seafloor sediment classification; side-scan sonar imagery; quadratic unsharp masking; QUM operator; edge extraction; texture energy measure; TEM; standard deviation; three-dimensional feature vector; seafloor image; cooccurence matrix feature; recognition rate

Class Codes: A9150J (Marine sedimentation and sediments); A9365 (Data and information; acquisition, processing, storage and dissemination in geophysics); B7710D (Oceanographic and hydrological techniques and equipment); B6135E (Image recognition); B0210 (Algebra); B6320E (Sonar and acoustic radar); C7340 (Geophysics computing); C5260B (Computer vision and image processing techniques); C1250M (Image recognition); C1110 (Algebra)

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8/9/2 (Item 1 from file: 56)

0000525767 IP Accession No: 200609-34-056981

Use of blur-space for deblurring and edge-preserving noise smoothing

Immerkaer, J

IEEE Transactions on Image Processing, v 10, n 6, p 837-840, June 2001

Publication Date: 2001

Publisher: Institute of Electrical and Electronics Engineers, Inc., 445 Hoes Ln, Piscataway, NJ,

08854-1331

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File Segment: Computer & Information Systems Abstracts

Abstract:

The Gaussian blur-space for an unblurred nD-image I is the set of the images obtained by blurring I with multivariate nD-Gaussians. Using the variance, instead of the standard deviation, of a Gaussian as blur parameter makes it simpler to extrapolate a deblurred image from a blurred image. Unsharp masking is shown to be a special case of the use of blur-space. Algorithms using blur-space for deblurring and edge-preserving noise smoothing, without explicit edge detection, are described and implemented

Descriptors: Images; Neodymium; Gaussian; Image processing; Masking; Blurring; Variance; Smoothing; Edge detection; Noise; Standard deviation; Algorithms; Blurred; Extrapolation

Subj Catg: 34, Multimedia Information Systems

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S2	1	((TZU-HUNG) near2 (CHENG)).INV.	EPO; JPO; DERWENT	OR	ON	2007/02/22 13:20
S6	1212	unsharp near2 mask\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/02/22 13:21
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S8	121	S7 and "unsharp mask"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/02/22 13:29
S9	175	S6 and S7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/02/22 13:30
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S31	2182	energy adj ratio	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/15 13:28
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S33	190	S31 same filter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/15 13:30
S34	5	S33 and "382".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR .	ON	2007/03/15 13:32
S35	128940	bandpass or (band adj pass)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/15 13:33
S36	20	S31 same S35	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/15 13:38
S37	1194	unsharp adj mask\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/15 13:38
S38	467	S37 and "382".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/15 13:42

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S42	1220	unsharp near2 mask\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/03/29 09:47
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